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09/459,574 12/13/1999 GEN SASAKI 6318-0022-2 1341  22850 7590 09/11/2003  OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. EXAMINER  1940 DUKE STREET  ALEXANDRIA, VA 22314  TRAN, NHAN T	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.  1940 DUKE STREET  ALEXANDRIA, VA 22314  TRAN, NHAN T	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314 TRAN, NHAN T	OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314 TRAN, NHAN T	09/459,574	12/13/1999	GEN SASAKI	6318-0022-2	1341
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ALEXANDRIA, VA 22314 TRAN, NHAN T	ALEXANDRIA, VA 22314 TRAN, NHAN T	· · · · · · · · · · · · · · · · · · ·			EXAMINER	
					TRAN, NHAN T	
	AKT UNIT PAPER NUMBER		•		L DT L DUT	
2615					DATE MAILED: 09/11/2003	/

Please find below and/or attached an Office communication concerning this application or proceeding.

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· •	Application No.	Applicant(s)				
Office Action Summary	09/459,574	SASAKI, GEN				
· · · · · · · · · · · · · · · · · · ·	Examiner	Art Unit				
The MAILING DATE of this communication app	Nhan T. Tran ears on the cover sheet	with the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may within the statutory minimum of ill apply and will expire SIX (6) No cause the application to become	thirty (30) days will be considered timely.  IONTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on <u>13 E</u>	<u> December 1999</u> .	•				
2a) This action is <b>FINAL</b> . 2b) ⊠ Thi	s action is non-final.	•				
3) Since this application is in condition for allowa closed in accordance with the practice under <i>I</i> Disposition of Claims						
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-27 are subject to restriction and/or e	election requirement.					
Application Papers	·					
9)☐ The specification is objected to by the Examiner	<b>.</b> .					
10) ☐ The drawing(s) filed on is/are: a) ☐ accep	ted or b)☐ objected to b	y the Examiner.				
Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·					
11)☐ The proposed drawing correction filed on		disapproved by the Examiner.				
If approved, corrected drawings are required in rep	•					
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.(	C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the prior application from the International Bur</li> <li>* See the attached detailed Office action for a list of the certified copies of the prior application.</li> </ul>	eau (PCT Rule 17.2(a)	).				
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.	C. § 119(e) (to a provisional application).				
a) The translation of the foreign language pro-						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				

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## **DETAILED ACTION**

## RESTRICTION REQUIREMENT

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1 6, 12 14 & 18 27, drawn to combined signal generator and general image signal processing, classified in class 348, subclass 222.1.
- II. Claims 7 11, drawn to shading or black spot correction, classified in class 348, subclass 251.
- III. Claims 15 16, drawn to defective pixel (e.g., signal replacement), classified in class 348, subclass 246.
- IV. Claim 17, drawn to gray scale transformation (e.g., gamma correction), classified in class 348, subclass 254.

Inventions I, II, III and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable:

Invention IV has separate utility such as "gamma compensation table of performing, when given a N-bit length pixel data, gamma compensation processing about said pixel data; and a selector in which, when given a N-bit length pixel data, said pixel data is inputted to said gamma compensation table; and when given a (N-2)-bit length pixel data, switching is made so

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that four data rows sequentially provided as a (N-2)-bit length pixel data, are respectively inputted to four look-up tables obtained by dividing said gamma compensation table into four" which is not required by the inventions I, II and III.

Invention III has separate utility such as "a defective pixel compensation block that reads defective pixel addresses stored in said main memory disposed outside of said real time processing unit, and performs defective pixel compensation when a pixel address of a pixel data residing in image matches said defective pixel address" which is not required by the inventions I, II and IV.

Invention II has separate utility such as cumulative addition processing function, circulation addition processing function and shading compensation which are not required by the inventions I, III and IV.

Invention I has separate utility such as pixel data of image temporarily stored in a main memory which is not required by the inventions II, III and IV.

See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T. Tran whose telephone number is (703) 605-4246. The examiner can normally be reached on Monday - Thursday, 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew B Christensen can be reached on (703) 308-9644. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

NT.

ANDREW CHRISTENSEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600